

STATEMENT OF BASIS

as required by LAC 33:IX.3109, for draft **Louisiana Pollutant Discharge Elimination System Permit No. LA0039888; AI 41489; PER20050001** to discharge to waters of the State of Louisiana as per LAC 33:IX.2311.

The permitting authority for the Louisiana Pollutant Discharge Elimination System (LPDES) is:

Louisiana Department of Environmental Quality
Office of Environmental Services
P. O. Box 4313
Baton Rouge, Louisiana 70821-4313

- I. THE APPLICANT IS:** Town of Farmerville
Farmerville Wastewater Treatment Plant
P.O. Box 427
Farmerville, LA 71241
- II. PREPARED BY:** Jim Bondy
- DATE PREPARED:** February 27, 2007
- III. PERMIT ACTION:** reissue LPDES permit LA0039888, AI 41489; PER20050001
- LPDES application received: August 4, 2005
- LPDES permit effective date: February 1, 2001
LPDES permit expiration date: January 31, 2006

IV. FACILITY INFORMATION:

- A. The application is for the discharge of treated sanitary wastewater from a publicly owned treatment works serving the Town of Farmerville.
- B. The permit application does not indicate the receipt of industrial wastewater.
- C. The facility is located at 550 Downs ville Street in Farmerville, Union Parish.
- D. The treatment facility consists of a wet weather lagoon, followed by an activated sludge treatment system. Disinfection is by chlorination.
- E. Outfall 001

Discharge Location: Latitude 32° 45' 48" North
Longitude 92° 23' 58" West

Description: treated sanitary wastewater

Design Capacity: 0.88 MGD

Type of Flow Measurement which the facility is currently using:

Combination Totalizing Meter / Continuous Recorder

Statement of Basis

LA0039888; AI 41489; PER20050001

Page 2

V. RECEIVING WATERS:

The discharge is into an unnamed ditch; thence into an unnamed tributary; thence into Lake D'Arbonne in segment 080604 of the Ouachita River Basin. This segment is not listed on the 303(d) list of impaired waterbodies.

The designated uses and degree of support for Segment 080604 of the Ouachita River Basin are as indicated in the table below^{1/}:

Overall Degree of Support for Segment	Degree of Support of Each Use						
	Primary Contact Recreation	Secondary Contact Recreation	Propagation of Fish & Wildlife	Outstanding Natural Resource Water	Drinking Water Supply	Shell fish Propagation	Agriculture
Full	Full	Full	Full	N/A	N/A	N/A	N/A

^{1/}The designated uses and degree of support for Segment 080604 of the Ouachita River Basin are as indicated in LAC 33:IX.1123.C.3, Table (3) and the 2004 Water Quality Management Plan, Water Quality Inventory Integrated Report, Appendix A, respectively.

VI. ENDANGERED SPECIES:

The receiving waterbody, Subsegment 080604 of the Ouachita River Basin, is not listed in Section II.2 of the Implementation Strategy as requiring consultation with the U. S. Fish and Wildlife Service (FWS). This strategy was submitted with a letter dated September 29, 2006 from Watson (FWS) to Brown (LDEQ). Therefore, in accordance with the Memorandum of Understanding between the LDEQ and the FWS, no further informal (Section 7, Endangered Species Act) consultation is required. It was determined that the issuance of the LPDES permit is not likely to have an adverse effect on any endangered or candidate species or the critical habitat. The effluent limitations established in the permit ensure protection of aquatic life and maintenance of the receiving water as aquatic habitat.

VII. HISTORIC SITES:

The discharge is from an existing facility location, which does not include an expansion beyond the existing perimeter. Therefore, there should be no potential effect to sites or properties on or eligible for listing on the National Register of Historic Places, and in accordance with the 'Memorandum of Understanding for the Protection of Historic Properties in Louisiana Regarding LPDES Permits' no consultation with the Louisiana State Historic Preservation Officer is required

VIII. PUBLIC NOTICE:

Upon publication of the public notice, a public comment period shall begin on the date of publication and last for at least 30 days thereafter. During this period, any interested persons may submit written comments on the draft permit and may request a public hearing to clarify issues involved in the permit decision at this Office's address on the first page of the statement of basis. A request for a public hearing shall be in writing and shall state the nature of the issues proposed to be raised in the hearing.

Statement of Basis

LA0039888; AI 41489; PER20050001

Page 3

Public notice published in:

Local newspaper of general circulation

Office of Environmental Services Public Notice Mailing List

For additional information, contact:

Jim Bondy
 Water Permits Division
 Department of Environmental Quality
 Office of Environmental Services
 P. O. Box 4313
 Baton Rouge, Louisiana 70821-4313

IX.

PROPOSED PERMIT LIMITS:

Subsegment 080604, Bayou D'Arbonne Lake, is not listed on LDEQ's Final 2004 303(d) List as impaired, and to date no TMDL's have been established. A reopener clause will be established in the permit to allow for the requirement of more stringent effluent limitations and requirements as imposed by any future TMDLs.

Final Effluent Limits:**OUTFALL 001**

Final limits shall become effective on the effective date of the permit and expire on the expiration date of the permit.

Effluent Characteristic	Monthly Avg. (lbs./day)	Monthly Avg.	Weekly Avg.	Basis
CBOD ₅	73	10 mg/l	15 mg/l	Limits are set in accordance with the Statewide Sanitary Effluent Limitations Policy (SSELP) for facilities of this treatment type and size, same as the previous permit.
TSS	110	15 mg/l	23 mg/l	Limits are set in accordance with the Statewide Sanitary Effluent Limitations Policy (SSELP) for facilities of this treatment type and size, same as the previous permit.
Ammonia-Nitrogen	37	5 mg/l	10 mg/l	Limits are set in accordance with the Statewide Sanitary Effluent Limitations Policy (SSELP) for facilities of this treatment type and size, same as the previous permit.

Statement of Basis

LA0039888; A1 41489; PER20050001

Page 4

Other Effluent Limitations:**1) Fecal Coliform**

The discharge from this facility is into a water body which has a designated use of Primary Contact Recreation. According to LAC 33:IX.1113.C.5.b.i, the fecal coliform standards for this water body are 200/100 ml and 400/100 ml. Therefore, the limits of 200/100 ml (Monthly Average) and 400/100 ml (Weekly Average) are proposed as Fecal Coliform limits in the permit. These limits are being proposed through Best Professional Judgment in order to ensure that the water body standards are not exceeded, and due to the fact that existing facilities have demonstrated an ability to comply with these limitations using present available technology.

2) pH

According to LAC 33:IX.3705.A.1., POTW's must treat to at least secondary levels. Therefore, in accordance with LAC 33:IX.5905.C., the pH shall not be less than 6.0 standard units nor greater than 9.0 standard units at any time.

3) Solids and Foam

There shall be no discharge of floating solids or visible foam in other than trace amounts in accordance with LAC 33:IX.1113.B.7.

X.**PREVIOUS PERMITS:**

LPDES Permit No. LA0039888: Effective Date: February 1, 2001

Expiration Date: January 31, 2006

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>		<u>Monitoring Requirements</u>	
	<u>Daily Avg.</u>	<u>Daily Max.</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>
Flow	Report	Report	Continuous	Recorder
CBOD ₅	10 mg/l	15 mg/l	1/week	3 hr. Composite
TSS	15 mg/l	23 mg/l	1/week	3 hr. Composite
Ammonia-Nitrogen	5 mg/l	10 mg/l	1/week	3 hr. Composite
Fecal Coliform				
colonies/100ml	200	400	1/week	Grab
pH	Range (6.0 – 9.0)		1/week	Grab
The permit contains pollution prevention language.				

XI.**ENFORCEMENT AND SURVEILLANCE ACTIONS:****A) Inspections**

A review of the files indicates the following most recent inspection was performed by LDEQ on September 26, 2006.

Findings and/or Violations -

1. There were no permit limitation violations of the DMRs checked.
2. The 2005 MWPP report was submitted.
3. The current permit renewal application states that there are no industrial

Statement of Basis

LA0039888; AI 41489; PER20050001

Page 5

dischargers into the POTW; however, car washes, oil/lube change facilities, restaurants, schools, hospitals, nursing homes, a prison, beauty shops, large and small engine service/sales facilities, and a laundry all use the POTW. This matter was referred to enforcement.

B) Compliance and/or Administrative Orders

LDEQ issued Consolidated Compliance Order and Notice of Potential Penalty (WE-CE-05-0513) to this facility on July 27, 2006. This Order (see attached) summarizes past Orders and requires that the facility take immediate steps necessary to achieve and maintain compliance with permit limitations and conditions contained in LPDES permit LA0039888.

C) DMR Review

A review of the discharge monitoring reports for the period beginning January 1, 2005 through December 31, 2006 has revealed the following violations:

Month	Parameter	DMR Reported Value	Permit Limit
May 2005	TSS, Monthly Avg.	23 mg/l	15 mg/l
	TSS, Weekly Avg.	40 mg/l	23 mg/l
	NH ₃ -N, Monthly Avg.	10 mg/l	5 mg/l
	NH ₃ -N, Weekly Avg.	14 mg/l	10 mg/l
	NH ₃ -N(mass), Monthly Avg.	44 lb/day	37 lb/day
June 2005	TSS, Monthly Avg.	24 mg/l	15 mg/l
	TSS, Weekly Avg.	40 mg/l	23 mg/l
	NH ₃ -N, Monthly Avg.	7 mg/l	5 mg/l
	NH ₃ -N, Weekly Avg.	13 mg/l	10 mg/l
July 2005	TSS, Monthly Avg.	18 mg/l	15 mg/l
	TSS, Weekly Avg.	40 mg/l	23 mg/l
	NH ₃ -N, Monthly Avg.	10 mg/l	5 mg/l
	NH ₃ -N, Weekly Avg.	15 mg/l	10 mg/l
	Fecal Coliform, Weekly Avg.	>1000 colonies/ml	400 colonies/ml
	CBOD ₅ , Monthly Avg.	12 mg/l	10 mg/l
	CBOD ₅ , Weekly Avg.	28 mg/l	15 mg/l
November 2005	TSS, Weekly Avg.	28 mg/l	23 mg/l
	NH ₃ -N, Weekly Avg.	13 mg/l	10 mg/l
	CBOD ₅ , Weekly Avg.	16 mg/l	15 mg/l

XII.**ADDITIONAL INFORMATION:**

The Department of Environmental Quality reserves the right to impose more stringent discharge limitations and/or additional restrictions in the future to maintain the water quality integrity and the designated uses of the receiving water bodies based upon water quality studies. These studies may indicate the need for more advanced wastewater treatment. Studies of similar dischargers and receiving water bodies have resulted in monthly average effluent limitations of 5 mg/l CBOD₅, and 2 mg/l NH₃-N. Therefore, prior to upgrading or expanding this facility, the permittee should contact the Department to determine the status of the work being done to establish future effluent limitations and additional permit conditions.

Final effluent loadings (i.e. lbs/day) have been established based upon the permit limit concentrations and the design capacity of 0.88 MGD.

Statement of Basis

LA0039888; AI 41489; PER20050001

Page 6

Effluent loadings are calculated using the following example:

$$\text{CBOD}_5: 8.34 \text{ lb/gal} \times 0.88 \text{ MGD} \times 10 \text{ mg/l} = 73 \text{ lb/day}$$

At present, the **Monitoring Requirements, Sample Types, and Frequency of Sampling** as shown in the permit are standard for facilities of flows between 0.50 and 1.0 MGD.

<u>Effluent Characteristics</u>	<u>Monitoring Requirements</u>	
	<u>Measurement Frequency</u>	<u>Sample Type</u>
Flow	Continuous	Recorder
CBOD ₅	1/week	3 Hr. Composite
Total Suspended Solids	1/week	3 Hr. Composite
Ammonia-Nitrogen	1/week	3 Hr. Composite
Fecal Coliform Bacteria	1/week	Grab
pH	1/week	Grab

Pretreatment Requirements

Based upon consultation with LDEQ pretreatment personnel, general pretreatment language will be used due to the lack of either an approved or required pretreatment program.

XIII**TENTATIVE DETERMINATION:**

On the basis of preliminary staff review, the Department of Environmental Quality has made a tentative determination to issue a reissue permit for the discharge described in this Statement of Basis.

XIV**REFERENCES:**

Louisiana Water Quality Management Plan / Continuing Planning Process, Vol. 8, "Wasteload Allocations / Total Maximum Daily Loads and Effluent Limitations Policy," Louisiana Department of Environmental Quality, 2005.

Louisiana Water Quality Management Plan / Continuing Planning Process, Vol. 5, "Water Quality Inventory Section 305(b) Report," Louisiana Department of Environmental Quality, 1998.

Louisiana Administrative Code, Title 33 - Environmental Quality, Part IX - Water Quality Regulations, Chapter 11 - "Louisiana Surface Water Quality Standards," Louisiana Department of Environmental Quality, 2004.

Louisiana Administrative Code, Title 33 - Environmental Quality, Part IX - Water Quality Regulations, Subpart 2 - "The LPDES Program," Louisiana Department of Environmental Quality, 2004.

Low-Flow Characteristics of Louisiana Streams, Water Resources Technical Report No. 22, United States Department of the Interior, Geological Survey, 1980.

Index to Surface Water Data in Louisiana, Water Resources Basic Records Report No. 17, United States Department of the Interior, Geological Survey, 1989.

LPDES Permit Application to Discharge Wastewater, Town of Farmerville, Farmerville Wastewater Treatment Plant, August 4, 2005.